# (19) World Intellectual Property Organization International Bureau





(43) International Publication Date 16 December 2004 (16.12,2004)

**PCT** 

## (10) International Publication Number WO 2004/109854 A1

(51) International Patent Classification<sup>7</sup>: H04B 7/02

H01Q 9/04,

(21) International Application Number:

PCT/IB2004/050786

(22) International Filing Date: 27 May 2004 (27.05.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

03101664.5

6 June 2003 (06.06.2003) EP

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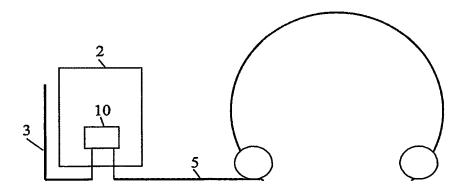
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Declaration under Rule 4.17:

as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM,

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(54) Title: RADIO FREQUENCY ANTENNA IN A WIRELESS DEVICE



(57) Abstract: Devices (1) comprising antenna (2-4, or 2, 3, 5) for receiving radio frequency signals are provided with first conductor (2) for receiving the radio frequency signals and for converting the radio frequency signals into electromagnetic fields and second conductor (3) for receiving at least a part of the electromagnetic fields and for converting the received electromagnetic fields into input signals. The second conductor (3) are coupled to radio frequency circuits (10) for processing the input signals. The resonant frequencies of these antennas (2-4, or 2, 3, 5) can be selected by designing the dimensions of the second conductor (3) and their positions with respect to the first conductor (2). The radio frequency circuits (10) comprise antenna diversity units (20) coupled to the second conductors (3) and to third conductors (4, 5). The third conductor (4) mainly receive the electromagnetic fields, or the third conductor (5) mainly receive the radio frequency signals. The devices (1) comprise wireless headphones.



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ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

#### Published:

with international search report

 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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